

CLAIMS

1. A system for controlling access to location information generated for wireless communications devices, comprising:

a first memory configured for storing at least one privacy profile for at least one subscriber wireless communications device, wherein the privacy profile includes at least one of: identification information for the at least one wireless communications device and at least one privacy preference for providing location information for the at least one wireless communications device to a requesting client application; and

10 a first interface accessible over a data network which is configured to access, retrieve and provide the location information for the at least one wireless communications device to the requesting client application wherein prior to provision of the location information the first interface is further configured to access the privacy profile of the at least one wireless communications device in the first memory and based on the analysis of the at least one privacy preference provide the location information in a manner specified in the profile, which includes but is not limited to denying access to the location information.

2. The system of claim 1 wherein the first interface is further configurable to provide access to the subscriber profile for the at least one wireless communications device wherein a subscriber accessing the profile may modify at least one of: the identification information, the at least one privacy preference, and access information to the profile.

3. The system of claim 2 wherein the at least one privacy preference includes at least one of: total denial of access, limited access to a time period, access limited to a

type entity making the request, access only granted to request of particular granularity, and access based on user's geographic location.

4. The system of claim 1 wherein the first interface is further configured to perform authorization and authentication process for the requesting client applications
- 5 which request the location information for the at least one wireless communications device.

5. The system of claim 4 wherein the memory is further configured to include a client profile for each of the requesting client applications wherein the client profile includes at least one of: client identification information and location request processing information.

6. The system of claim 5 wherein the client profile may further include at least one of: allowed location request types, time periods when the location requests are limited, limits on frequency of the location requests, granularity allowed of the location information provided, notification provisions for the at least one wireless communications device.

7. The system of claim 4 wherein the first interface is further configured to provide access to the client profile so that the requesting client applications may modify the client profiles to for which they are authorized to access.

8. The system of claim 1 wherein further including a second interface
- 20 through which communications are established with a location server which provides the location information for the at least one wireless communications device.

9. The system of claim 7 wherein the second interface is configured to receive location requests made through the location server, and to access the subscriber

profile and provide access to the location information for the at least one wireless communications device based on analysis of the privacy preferences in the subscriber profile.

10. The system of claim 1 wherein the first interface is configured to
5 communicate over the data network with at least one of: a computer workstation configured with a web browser and a network connection, wireless communications device employing wireless access protocol (WAP) and connecting through a WAP gateway, a wireless communications device configured for short message service (SMS) and a 3G phone configured with a direct HTML browser.

10 11. The system of claim 1 wherein the first interface is further configured to perform at least one of:

automated billing functions related to the requests for the location information received from the requesting applications;

provide the location information based on a priority assigned to the requesting 15 application; and

request throttling which controls number of the location requests the requesting applications may make within an identified time period.

12. The system of claim 8 wherein at least one of: the first memory and the first interface, are configurable on the same platform as the location server.

13. A method of controlling access to location information generated for wireless communications devices operating in a wireless communications network, comprising the steps of:

periodically receiving location information requests for at least one wireless
5 communications device over a data network from a requesting client application;
accessing a subscriber profile associated with the at least one wireless
communications device in memory, wherein the subscriber profile includes an indication
of which of the requesting client applications may receive the location information as
well as at least one privacy preference which controls the manner in which the location
10 information may be provided;

determining whether the requesting client application is included in the accessed
subscriber profile for the at least one wireless communications device; and
if the at least one client application is identified in the accessed subscriber profile,
providing access to the location information for the at least one wireless communications
15 device according to the at least one privacy preference.

14. The method of claim 13 further comprising the step of authenticating and
authorizing the at least one client application upon receipt of the request for the location
information for the at least one wireless communications device.

15. The method of claim 14 wherein the step of authenticating and authorizing
20 comprises:
accessing a client profile in memory associated with the at least one requesting
client application;

receiving identification information from the at least one requesting client application;

comparing the received identification with stored identification in the client application profile; and

5 authenticating and authorizing the request for the location information if the received identification information substantially matches the received identification information.

16. The method of claim 13 wherein the at least one privacy preference includes at least one of: total denial of access, limited access to a time period, access 10 limited to a type of entity making the request, access only granted to request of particular granularity, and access based on user's geographic location.

17. The method of claim 15 wherein the client profile may further include at least one of: allowed location request types, time periods when the location requests are limited, limits on frequency of the location requests, granularity allowed of the location 15 information provided, notification provisions for the at least one wireless communications device.

18. The method of claim 15 further comprising the step of:
detecting an access request for the client application profile for the at least one client application, wherein the request includes identification information for the at least 20 one client application;

retrieving the client application profile from memory and presenting said profile to the requesting client application; and

detecting modifications to the client application profile and entering the detected modifications in the client application profile

19. The method of claim 14 further comprising step of:
 - detecting an access request for the client application profile for the at least one subscriber, wherein the request includes identification information for the at least one subscriber;
 - retrieving the subscriber profile from memory and presenting said profile to the requesting subscriber; and
 - detecting modifications to the subscriber profile and entering the detected modifications in the subscriber profile.
20. The method of claim 13 further comprising the step of processing the location requests received from: client applications over a data network and directly from a location server.
21. The method of claim 13 wherein communications are processed by web browsers or wireless communications devices through a WAP gateway.
22. The method of claim 13 further comprising the step of initiating an automatic billing procedure upon a detected connection by the at least one client application.
23. The method of claim 13 further comprising the step of providing request throttling for the location requests.
24. The method of claim 13 further comprising the step of processing the location requests according to a priority assigned to the at least one client application and included in the client application profile.